

Curriculum Vitae for Maiken Balman Gravgaard

Contact details:

Postal address (work): Department of Mathematics, Aarhus University, Ny Munkegade 118. DK-8000 Aarhus C, Denmark

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Position: PhD student, Department of Mathematics, Aarhus University.

Education:

2015-18 Gymnasium. Silkeborg Gymnasium. Specialized in: Mathematics, Physics and Chemistry.

2018-21 BSc in Mathematics (minor in statistics), Aarhus Universitet. Bachelors project: "Diophantine Approximation on the Parabola".

2021- MSc in Mathematics, Aarhus Universitet.

2022- PhD in mathematics, supervised by Simon Kristensen, Aarhus Universitet. Project title: "Metric Diophantine Approximation on Algebraic Varieties".

Teaching experience

2019- Teaching assistant, tutorials and marking (undergraduate level, Aarhus Universitet) - Calculus Beta, Introduction to Statistics and Data Analysis with R, Mathematical Analysis 1, Linear Algebra, Measure and Integration Theory, Complex Analysis, Differential Equations, Mathematical Analysis 1, Mathematical Analysis 2, MM101: Analyse 1 (at Syddansk Universitet), MM103; Algebra (at Syddansk Universitet)

2020 Private mentoring - Mathematical Analysis 2

2022- Question and answer session (known as Mathematical Laboratory, Matlab for short) (Undergraduate level, Aarhus Universitet) - Mathematical Analysis 1; Introduction to Probability Theory and Statistics.

Graduate courses

2021-2022 Advanced Algebra, Advanced Topics in Complex Analysis, Partial Differential Equations, Stochastic Calculus, Advanced Analysis, Fractal Geometry, Algebraic Curves, Homological Algebra.

2022-2023 Harmonic Analysis and Geometry of Locally Compact Groups, Statistical Inference, Introduction to Representation Theory of Linear Groups.

2023-2024 Science Teaching.

Summer 2023 I attended the Zürich Dynamics School - A 3 day summer school on Dynamical Systems.

Spring 2024 I attendended the Göttingen Spring School "Zeta functions, dynamics and analytic number theory"

Other experience and elected positions

- In 2020/2021 and 2021/2022 I was a board member of the association Eulers Venner at the Department of Mathematics, Aarhus Universitet. An association hosting mathematical lectures and occasional social events for students at the department.
- In 2020/2021 I was a board member of the tutor association Mat/Fys-Tutorgruppen organizing the start of studies for new students. In 2019/2020 I was a tutor.
- I have done a presentation at the departments Teaching Assistent Workshop at the beginning of every semester since fall 2021 (5 times in total).
- I am currently a board member of the Women in Mathematics association at Aarhus Universitet (WoMAN), and have been since August 2022. We organize events like: mathematical lectures, social events, PhD information meetings, career events, Women in Mathematics conference etc.
- I coorganised "Women's networking at NCM29" on 03/07-2023 in Aalborg.
- I gave two talks to potential new students at the Aarhus Universitet open house event (Udays).
- 28/04-2022 I gave a talk on "Diophantine Approximation on the Parabola" at the WoMAN National Mini-Conference (Aarhus).
- 12/05-2023 I gave a talk on "Dirichlet Improvability" at the National Women in Maths Conference (Odense).
- I coorganised the conference \mathbb{N}^3 -Days XVIII at Aarhus Universitet along with Simon Kristensen and Mathias Løkkegaard Laursen.
- I was part of an informal seminar group with 2 other PhD students at the Department of Mathematics Aarhus Universitet, where we took turns giving talks.
- 21/03-2024 Gave a gong talk at Göttingen Spring School on "Quantitative Khintchine on the parabola with non-monotonic approximation functions"
- 16/04-2024 Organised a Diophantine Approximation Symposium at Aarhus University and gave a talk.
- 28-30/09-2024 Invited to speak at \mathbb{N}^3 -Days XXI in Kiel.